

MCC2F00

Mini PCIe to 2-port CAN FD Communication Card



Introduction

SUNIX MCC2F00, industrial miniPCIe to 2-port high speed CAN FD communication card, is designed for Edge Computer that enables CAN FD and CAN bus data communication capability for electric vehicle industry application. This board built-in SUNIX Digital-I/O controller, **QiuNiu**, and also built with many of SUNIX advanced features and technologies. In addition, SUNIX provides SocketCAN driver, allowing users to program under Linux operating systems. SUNIX MCC2F00 card enriches CAN/ CAN FD interface expandable capacity; it is the best CAN bus communication solution for electric vehicle and AVG/AMR, IVI (In-Vehicle Infotainment) applications.

Features

- Suitable for mini PCIe slot based on PCI Express communication.
- Equipped with high reliable SUNIX QiuNiu controller.
- Complies with CAN specifications 2.0B and FD
- CAN FD bit rates for the data field up to 8 Mbit/s
- Plug-n-Play, I/O address and IRQ assigned by system.
- Support proprietary SocketCAN driver, allowing users to program under Linux operating systems.

Specifications

Board Level

Interface	mini PCIe
Controller	SUNIX QiuNiu controller
BUS	PCI Express 2.0 x1
IRQ & IO	Assigned by System
ESD Protection	±15KV IEC61000-4-2 Air Gap Discharge ±8KV IEC61000-4-2 Contact Discharge

CAN Communication

Type	CAN 2.0 / CAN FD	Channel	2-channel
Arbitration bit rate	1 Mbit/s	Data bitrate	8 Mbit/s
PCB Connector	2 pcs x WAFER 2x5P pitch 1.0mm (180°)		

Software Support

Linux	Linux 5.x
Driver	SocketCAN

Declaration

Green Product	RoHS, WEEE
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Regulatory Approvals

Hardware	CE / FCC / VCCI / BSMI
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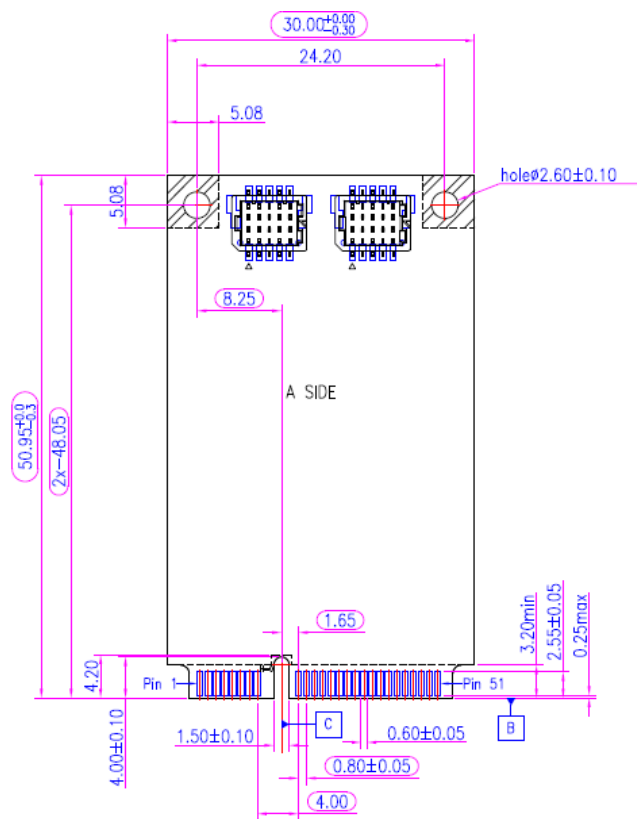
Environment

Operation Temperature	-20 to 70°C (-4 to 158°F)
Operation Humidity	5 to 95% (non-condensing)
Storage Temperature	-20 to 85°C (-4 to 185°F)

Dimension

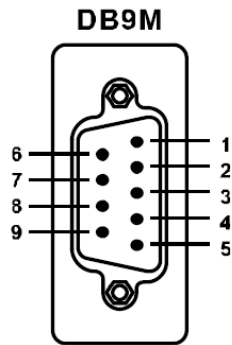
PCB Dimension	30 x 50 mm
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Unit : mm



Pin Assignment

■ CAN interface



PIN	Signal
1	-
2	CAN L
3	GND
4	-
5	-
6	GND
7	CAN H
8	-
9	-

Package

- MCC2F00 Mini PCIe to 2-port CAN FD communication Card
- D-Sub 9-pin male with nuts on cable, 30 cm x 2pcs

